

16th Conference of the Science Council of Asia

Theme:

**Science for the People: Mobilizing Modern
Technologies for Sustainable Development in Asia**

May 30-June 1, 2016

Galadari Hotel, Colombo, Sri Lanka

Local Organizing Committee

Prof. Vijaya Kumar (Co-Chair)

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CONFERENCE PROGRAMME

Monday, May 30, 2016

8.00 h on: Registration – Registration Desk in Ballroom Lobby

Pre- Inauguration Event 1

Orchid Room

(Delegates to SCA Conference Only)

9.00-10.00	SCA Management Meeting
10.00-10.30	Tea
10.30-12.30	SCA General Assembly Sessions
12.30 – 13.30	Lunch – Open to Delegates, Foreign Participants and Local Resource Persons of SCA Joint Workshop

Pre- Inauguration Event 2

Orchid Room

(Open to Registered Participants and Delegates to SCA Conference)

14.00-16.00 Joint Workshop Session – A series of presentations of ongoing research projects between Sri Lanka and Japan

Joint Workshop Session (Proceedings p.): 14.00 p.m. to 16.00 p.m

Joint. Chairs Vijaya Kumar (Sri Lanka) and Hiroshi Yoshino (Japan)

14.00-14.20	Promoting Collaborative Research between Sri Lanka and Japan: Role of Sri Lanka Japan Study Centre - Missaka Wijayagunawardane , University of Peradeniya,
14.20-14.40	Development of a Novel Energy Storing Device Using a MoO ₂ Anode and Graphite Cathode - Nanda Gunawardhana , University of Peradeniya, Sri Lanka
14.40-15.05	Pollution Control and Environmental Restoration Techniques for Solid Waste Landfills in Sri Lanka K. Kawamoto , Saitama University, Japan,
15.05-15.30	Sri Lanka-Japan Collaborative Research on Dye-sensitized Solar Cells – G R A Kumara , University of Peradeniya, Sri Lanka
15.30-15.55	Distribution of Fluoride in Well Water of Sri Lanka and its Removal T. Kawakami , Toyama Prefectural University, Japan,
15.55-16.45	Tea

Inauguration Ceremony Programme
Galadari Hotel Ballroom

- 16.45 - 16.55** Ceremonial Entrance of Guests Procession
- 16.55 – 17.05** Traditional Lighting of the Oil Lamp
- 17.05 – 17.15** Welcome Address : Prof. V. Kumar, President, Science Council of Asia
- 17.15 – 17.20** Address by. Dr. A. M. Mubarak, President, National Academy of Sciences of Sri Lanka (NASSL)
- 17.20 – 17.25** Address by. Ms. A. Amarasinghe, Director National Science Foundation
- 17.25 – 17.35** Address by. Dr. Takashi Onishi, President, Science Council of Japan
- 17.35 – 17.45** Address by. Prof. Krishan Lal, Co-Chair, Inter-Academy Partnership
- 17.45 – 18.10** Address by Chief Guest, Hon. Minister
- 18.10 - 18.45** Address by Key Note Speaker Prof. Koike (Proceedings p.1)
- 18.45 – 18.50** Vote of Thanks, Prof. Nadira Karunaweera, General Secretary, NASSL
- 19.00** Cultural Show
- 19.40** Dinner hosted by National Science Foundation of Sri Lanka

Tuesday, May 31·2016

8.00 on Registration

9.00-17.00 - Science for the People: Mobilizing Modern Technologies for Sustainable Development in Asia” (Day 1)

Plenary Session – Bougainvillea Room

Joint. Chairs *Azeez. Mubarak (Sri Lanka) and Yasuhiro Koike (Japan)*

0.00 – 9.10 **Welcoming Remarks**

9.10 -9.40 Radiation Research and some 21st Century Challenges

Jai P. Mittal, Indian National Science Academy, India

9.40 -10.10 Responding to novel emerging epidemics: The “One Health” approach

Malik. Peiris, The University of Hong Kong, Hong Kong

10.10 – 10.40 Industrially-viable Nanotechnology Research Activities: An Overview of Solar Energy Conversion and Greener Hydrogen Energy Generation

R. M. G. Rajapakse, University of Peradeniya, Sri Lanka

10.40-11.00 Tea

Oral Presentations

Session: Future Earth: for Sustainable Development in Asia- (Proceedings 16-34),
Bougainvillea Room

Joint. Chairs *W. L. Sumathipala (Sri Lanka) and Nang Mya Han (Myanmar)*

- 11.15-11.30** Future Earth: for Sustainable Development in Asia,
F. Kasuga , Tokyo University, Japan, 16, 17-18
- 11.30-11.45** Future Earth in Asia
H. Mallee , Centre for Future Earth, Japan, 16, 19-21
- 11.45-12.00** Asian Perspective and Research Direction Identified in Events Held by
Future Earth
S-C. C. Lung, Academica Sinica, Taipei, 22-27
- 12.00-12.15** Launching of Future Earth in Korea
S-C.Yoon, Seoul National University, Korea 28
- 12.15-13.00** Future Earth in Asia as knowledge and engagement hub:
The example of the SIMSEA programme
Md N. Hasan, Academy of Sciences, Malaysia, 29-34
- 12.30-13.00** Discussion

Session: Information Technology (Proceedings p. 35-56)

Joint. Chairs *Indrika Rajapaksha (Sri Lanka) and Hiroto Takaguchi (Japan) VIP Lounge*

- 11.00-11.25** Applying Digital Technology to Business,
S. I. Kwak - Seoul National University, Korea
- 11.25-11.40** Modeling a dynamically scalable grid, based on mobile devices,
G. D. H. P. Gamage, Rajarata Unviersity, Sri Lanka.
- 11.40-11.55** A Computer Aided System to Identify the Face shape of a Person using
Machine Learning and Image Processing Technique,
H. N. Gunasinghe, University of Sri Jayewardenapura, Sri Lanka
- 11.55-12.10** Private cloud based e-learning infrastructure for Sri Lankan Higher
Education
K. P. N. Jayasena, Sabaragamuwa University, Sri Lanka.
- 12.10-12.25** English medium science education at the junior secondary level of Sri
Lanka: Problems and potential to assist through ICT,
K. A. T. K. G. Kandanamulla, National Science Foundation, Sri Lanka,
- 12.25-12,50** Impact of Obstacles on a Gateway Selection Scheme in an M2M
Architecture for Short Range Wireless Devices,
V. G. T. N. Vidanagama, Wayamba University, Sri Lanka

Session: Culture and Archaeology (Proceedings p. 57-86) Orchid Room

Joint. Chairs Wasantha Anuruddha (Sri Lanka) and Akira Wada (Japan)

- 11.00-11.25** Significance of Cultural Heritage and Establishment of International Network in Southeast Asia.
T. Nakagawa, Waseda University, Japan
- 11.25-11.40** The significance of —āçramal system in Khmer Empire
C. Kuroiwa, Waseda University, Japan.
- 11.40-11.55** Reconstruction Study for Decorative Painting at the ‘Can Chanh Dien’, Main Palace of the Nguyen Dynasty
S. Saito, Waseda University, Japan.
- 11.55-12.10** Mobilizing Urban Folk Events for Design of Resilient Community —From Case on —*Jizo-bon* in Central Kyoto
M. Maeda, Kyoto University, Japan.
- 12.10-12.25** The Story Behind the Escalon Man
L. E. Bauzon, University of the Philippines, Philippines
- 12.25-12.50** Research at Prasat Sambor Temple N1 Tower and Conservation Pre-Angkor Monument.
Sokuntheary So, Norton University, Cambodia.

Session: Nanotechnology (Proceedings p. 87-95) – Jasmine Room

Joint. Chairs G. R. A. Kumara (Sri Lanka) and Y. Baran (Turkey)

- 11.00-11.25** Functionalized magnetic nanoparticles for efficient enrichment and sensitive detection of low abundant protein biomarker
R. Y. Capangpangan, Caraga State University, Philippines
- 11.25-11.40** Nanotechnology for Sustainable Development in Sri Lanka
N. Kottegoda, University of Sri Jayewardenapura/SLINTEC, Sri Lanka
- 11.40-11.55** Graphene Oxide-based hybrid filter for water purification.
N. A. Kapuruge, University of Colombo. Sri Lanka.
- 11.55-12.10** Fabrication of self-cleaning anti-microbial textiles *via* nano technological approach
R. B. S. D. Rajapakse, University of Peradeniya/PGIS, Sri Lanka
- 12.10-12.25** Bacterial nanocellulose: a multifunctional nanomaterial
W. R. A. P. J. Ratnayake, University of Peradeniya/PGIS, Sri Lanka
- 12.25-12.50** Microemulsion based-novel binary drug delivery system with glycolipid as permeation enhancer
E. P. N. Premarathne, University of Peradeniya/PGIS, Sri Lanka
- 13.00-14.00** Lunch – *Anthurium Room*
Set up of Poster Presentations - Bougainvillea Room

Plenary Lectures (Proceedings p. 5-6)- *Bougainvillea Room*

Joint Chairs Devika De Costa (Sri Lanka) and Md. N. Hasan (Malaysia)

14.00-14.30 Mechanistic insights into role of DNA polymerase IV in replication and evolution illuminate a novel strategy to combat multidrug resistance,
Deepak T. Nair, Regional Centre for Biotechnology, India

14.30-15.00 Climate Change and Natural Disasters.
W. L. Sumathipala, Open University of Sri Lanka, Sri Lanka

15.00-15.30 **SCA Dialogue** with **Hon. Ranil Wickramasinghe, Prime Minister** of the Democratic Socialist Republic of Sri Lanka. - *Bougainvillea Room*

15.30-15.50 **Tea**

Session: Climate and Climate Change (Proceedings p. 96--123) - *Bougainvillea Room*

Joint. Chairs Jagath Gunatilake (Sri Lanka) and S.C. Candice Lung (Taiwan)

15.50-16.15 Climate Change and Monsoon Onset Effects on Myanmar coastal resources emphasis on Myeik Archipelago,
N. M. Han, Myek University, Myanmar.

16.15-16.30 Spatial and Temporal variation of Rainfall during South-West Monsoon period in Sri Lanka and its relationship with some of the Global Teleconnections
R. D. Hettiarachchi, Open University of Sri Lanka, Sri Lanka.

16.30-16.45 Impact of the Intra-seasonal Oscillations (ISO) on rainfall variability during Southwest Monsoon (SWM) in Sri Lanka
I. M. S. P. Jayawardena, Department of Metereology. **Sri Lanka**

16.45-17.00 Identification of Percentile Base Extreme Maximum Temperature in Sri Lanka and its Projection to Year 2050
K. H. M. S. Premalal, Department of Metereology. Sri Lanka..

17.00-17.15 Simulation of the thermal and air environment in Japanese traditional architecture.
S. Kawakubo, Hosei University, Japan.

17.00-17.30 Achieving China's Intended Nationally Determined Contribution: Role of the Residential Sector
R. Xing, National Institute for Environmental Studies, Japan

17.30 -17.45 Defining thermal comfort in residential buildings of North-East India **M. K. Singh**, Institute of Industrial Science, Japan

Session: Environment (Proceedings p. 124-146) – *Orchid Room*

Joint. Chairs M. Jayantha S. Wijeyaratne and S.-C. Yoon (Korea)

15.50-16.15 Development of a Cable Type Sky Solar System to encourage both to accelerate natural energy development and to promote intensive agricultural farming.

Ben Nakamura, Architectural Institute of Japan

16.15-16.30 Chemically modified local sugarcane bagasse for heavy metal trapping

W. A. K. M. Gunasekara, University of Peradeniya /PPGIS

16.30-16.45 Impact of the Intra-seasonal Oscillations (ISO) on rainfall variability during Southwest Monsoon (SWM) in Sri Lanka

M. F. Hossain, National Institute of Fundamental Studies, Sri Lanka.

16.45-17.00 Suitability of surface water and groundwater in Dry Zone in Sri Lanka for irrigation and domestic purposes,

S. K. Gunatilake, Sabaragamuwa University, Sri Lanka

17.00-17.15 Sustainable Development of Built Environment by Managing Building Waste: Two Case Studies in India.

A. K. Kasthurba, National Institute of Technology, India.

17.15-17.30 Municipal Solid Waste Biochar to remediate its own waste; Removal of dissolve organic carbon and volatile organic compounds in landfill leachate

M. S. Vithanage, National Institute of Fundamental Studies, Sri Lanka

17.30-17.45 Sustainable Domestic Wastewater Management Mechanism: Exploring Current Practices in Ratnapura Municipal Council Area

I. Rajapaksha, University of Moratuwa, Sri Lanka

Session: Health (Proceedings p. 146-161) – *VIP Lounge*

Joint. Chairs: Nadira Karunaweera (Sri Lanka) and Malik Pieris (Hong Kong)

15.50-16.15 Smart Wellness Housing Project to promote Low Carbon and Healthy Cities in Japan

T. Ikaga, Keio University

16.15-16.30 Sustainable Development and Medicine: Contextualizing Technology

J.. Bhattacharya, Independent Scholar, **India**.

16.30-16.45 GIS-based Analyses on the Accessibility to Health Care in the Case of Kanagawa Prefecture

Y Kobayashi, Keio University 149

16.45-17.00 A ten year follow-back study for the risk of developing cardiovascular disease associated with indoor temperature.

S. Ando, University. of Kitakyushu, Japan .

17.00-17.15 Development of Monitoring Application for Living Environment by Crowd Sourcing in the Post-Nepal Earthquake Shelters: A Consideration from Nursing

- S. Kanbara** University of Kochi, Japan
17.15-17.30 A study on heat stroke prevention in environment-friendly campus,
Y. Yoshino, Nihon University junior College, Japan
17.30-17.45 Study on Risk of Accident by Heatstroke in Construction Industry of Japan
H. Wariishi, Toyo University Japan,

Session: Biotechnology (Proceedings p 162--176) – Jasmine Room

Joint. Chairs Lalith Jayasinghe (Sri Lanka) and Rex Capanpangan (Phillipines)

- 15.50-16.15** Harnessing the strength of biotechnology to meet challenges of plant disease management.
D. M. De Costa, University of Peradeniya, Sri Lanka..
- 16.15-16.30** The DNA Marker Assisted Introgression of Blast Resistant Genes (Pita, Pikh, Pitp(t) of Tetep variety into Local Rice Blast susceptible cultivar Bg94
W. A. D. Jayawardana, University of Colombo, Sri Lanka.
- 16.30-16.45** Protein Analysis by Multiplex Techniques
A. Khanum, , Barani Institute of management Sciences, Pakistan
- 16.45-17.00** LAMP for detection of RRSV and RDV in insect vector
E. R. Tiongco, International Rice Research Institute, Philippines.
- 17.00-17.15** Isolation and characterization of Restriction Enzymes from Sri Lanka.
S. N. J. Pathirana, . University of Colombo, Sri Lanka
- 17.15-17.30** Bioremediation of petroleum oil contaminated water
K.P.D. Tharaka, University of Colombo, Sri Lanka
- 17.30-17.45** Optimizing environmental parameters affecting in-vitro rock phosphate solubilization by native Phosphate Solubilizing Microorganisms
R. K. R. S. Ranasinghe, University of Colombo, Sri Lanka
- 17.45-18.45** **SCA Management Committee Sessions** (Open to Delegates to SCA Conference only)

19.00 – 21.30 Dinner hosted by **Science Council of Japan - Bougainvillea Room**

Wednesday, June 1 2016

8.00 on Registration

9.00-17.00 - Science for the People: Mobilizing Modern Technologies for Sustainable Development in Asia” (Day 2)

Plenary Session – Bougainvillea Room

Joint. Chairs *Gamini Rajapakse (Sri Lanka) and S. K. Satheesh (India)*

9.00 -9.30 Gender Gap in IT Entrepreneurship: An Experiential Comparison of Silicon Valley and Sri Lanka

Shahani Markus, Emojot Inc., Sri Lanka

9.30 -10.00 Nanotechnology in Agriculture: Nanocomposites as a Platform for Enhanced Plant Uptake of Nitrogen

Gehan A. J. Amaratunga, SLINTEC., Sri Lanka, University of Cambridge, UK

10.00-11.00 Poster Session, Tea - *Bougainvillea Room*

POSTERS (Proceedings 299-337)

1. **A. S. D. Grahito**, Indonesian Institute of Science, Indonesia (LIPI)
Function of Technology Incubator as Risk Taker on New Technology-Based Firms: A Case Study on Technology Incubator LIPI
2. **B. S. Bantugan**, St Paul University, Philippines
Development of an Earthquake Safety Awareness Material for St. Paul University Manila Using Video Arts, , 304
3. **P. G. R. C. J. Gamlath**, University of Peradeniya, Sri Lanka.
Potential low cost materials for permeable reactive barriers to treat ground water polluted with landfill leachate in Sri Lanka: A review.
4. **M. P. A. Perera**, University of Moratuwa, Sri Lanka.
Define KPIs for Balanced Scorecard to Measure Eco-Sustainable Performance at Container Terminals in Sri Lanka.
5. **P. Yantyo**, Indonesian Institute of Science, Indonesia (LIPI).
Investigation on the Opportunities of Solar Rooftop Development in Green Technology and its Application to Industrial Sector.
6. **M. R. Romadona**, Indonesian Institute of Science, Indonesia (LIPI)
Capability of Technology in Indonesia’s Steel Industries,.
7. **K. Kawamoto** (on behalf of **T. Saito**), Saitama University, Japan.
Ground source heat pump systems and the environmental risks
8. **S. Maulana**, Indonesian Institute of Science, Indonesia (LIPI)
Facilitation of Traditional Medicine Industry through Science and Technology Park for Growth Development of the National Drug Industry

9. **S. Maulana**, Indonesian Institute of Science, Indonesia (LIPI)
Role of Science and Technology Park LIPI in Development of Research-Based Industry Needs: Lesson Learned from Technology Transfer Process
10. **C. Udawattha**, University of Moratuwa, Sri Lanka.
Manufacturing Framework and Cost optimization for Building Mud Concrete Blocks.
11. **A.A.S.H. de S. Welinge**, University of Colombo, Sri Lanka
Physical activity among adults in the urban area of Colombo, Sri Lanka and its relationship with the built environment.
12. **M. Wickramathilaka**, University of Moratuwa
General Feasibility Study on Applicability of Sea Wave Energy Technology in a Sri Lankan context.

Oral Presentations

Session: Sri Lanka Academy of Young Scientists (Proceedings p. 177-192)- Bougainvillea Room

Joint. Chairs Chamara Jayasundara (Sri Lanka) and Manoj Singh (Japan)

- 11.00-11.25** Molecular mechanisms of Drug Resistance in Haematological Malignancies
Y. Baran, Izmir Institute of Technology, Turkey
- 11.25-11.40** Leishmaniasis: unravelling the mysteries of a new health issue in Sri Lanka
H. V. Y. D. Siriwardana, University of Colombo
- 11.40-11.55** The Potential of Brain Computer Interfacing for Sustainable Development
S. R. Liyanage
- 11.55-12.10** Laboratory Safety.
S. Chelvendran, Industrial Technology Institute, Sri Lanka
- 12.10-12.25** Enhancing sustainable research capacity through mentorship on research communication and through networking
D. Dissanayake
- 12.25-12.40** Newly Emerging Biological Activities for the Pharmaceutical Potential of some Common Lichen Metabolites
V. M. Thadani, Sri Lanka Institute of Nanotechnology, Sri Lanka.
- 12.40-12.55** Career Development and Women Scientists in Sri Lanka
P. R. M. P. Dilrukshi, National Science Foundation, Sri Lanka.

Session: Social Aspects (Proceedings p. 193-206 and 339)- VIP Lounge

Joint. Chairs: Seetha Wickramasinghe (Sri Lanka) and Lordes Portus (Philippines)

- 11.00-11.25** ASEAN Economic Cooperation and Chinese Development towards the West, AIIB and the Silk Road, One Band and One Road Idea collaborating with the European Union
K. Haba, Aoyama Gakuin University, Japan

- 11.25-11.40** Sustainable tourism by preservation of cultural and architectural heritage of tribals at Wayanad, Coorg and The Nilgiris,
K. Choyimanikandiyil, Manipal University, India
- 11.40-11.55** The Role of Technology in the Protection and Preservation of Endangered Languages as Linguistic Heritage in Indonesia,
F. H. Tondo, Indonesian Institute of Science, Indonesia.
- 11.55-12.10** Historical land use changes and amount of damage in the tsunami affected area by the 2011 Tohoku earthquake, Kesenuma City, Japan,
T. Ichinose, Keio University, Japan.
- 12.10-12.25** Radar technologies against Natural disaster and Man-made hazards
M. Sato, Tohoku University, Japan, 202
- 12.25-12.40** The traditional water supply system in the Newar historic settlements of Khokana, Nepal.
T. Mori, University of Tokyo ,Japan.
- 12.40-12.55** Solar Power's Rise and Promise for Inclusive Green Growth,
E. M. Pernia, University of the Philippines,

Session: Natural Products/Food Technology (Proceedings p. 207-222)- Jasmine Room
Joint. Chairs Sunethra Athukorale (Sri Lanka) and Mohammed Kismurton (Indonesia)

- 11.00-11.25** Fungi from Sri Lankan medicinal plants as a sustainable source of bioactive compounds.
L. Jayasinghe, National Institute of Fundamental Studies Sri Lanka.
- 11.25-11.40** Enhancement of therapeutic properties of king coconut (*Cocos nucifera* var. *aurantiaca*) water by fermentation with tea fungus,
M. I. Watawana National Institute of Fundamental
- 11.40-11.55** Effect of storage temperature and processing conditions on microbial quality of desiccated coconut,
M. P. G. N. M. Palliyaguru, Sri Lanka Standards Institution, Sri Lanka
- 11.55-12.10** Isolation and Screening of Potential Probiotic Yeast Strains in Sri Lankan Dairies
D, U. Rajawardana, Industrial Technology Institute, Sri Lanka..
- 12.10-12.25** Evaluation of Probiotic Attributes of *Lactobacillus* Sp. Isolated from Different Cow and Buffalo Curd Samples Collected from Central Province
M. F. F. Shuhadha, Rajarata University
- 12.25-12.40** Phylogenetic complexity of *Lasiodiplodia* species found in Sri Lankan dry zone forests
R. H. Bandara, University of Kelaniya, Sri Lanka.
- 12.40-12.55** The Green Village in Lagiwlwi: Organic Agriculture as Climate Change Adaptation Measure,
B. M. Mijares Jr. Bohol island State University, Philippines.

Session: Urban Planning (Proceedings p. 223-249)- Orchid Room

Joint. Chairs Priyan Dias (Sri Lanka) and Tomohiro Ichinose (Japan)

- 11.00-11.25** Preservation of Cultural Heritage in Earthquake-Prone Countries
A. Wada, Tokyo Institute of Technology, Japan,
- 11.25-11.40** Recent tendency of accidents in building facilities and risk of fatal accidents by heatstroke in construction industry
L. Jingye, Toyo University, Japan
- 11.40-11.55** Building energy index and morphology: Critique on urban office building stock of Colombo Municipal Council region.
I. Rajapaksha, University of Moratuwa, Sri Lanka
- 11.55-12.10** Research and Prevention of Urban Villages in Chinese Cities from the View Points of Urban Growth Boundaries and Architectural Space
X. Wang, Waseda University, Japan
- 12.10-12.25** Electrochemistry and Electrocatalytic Activity of Nickel (II) [bis(benzil)(1,2- phenyldiamine)] and Chloro Substituted Nickel (II) [bis(benzil)(4-chloro-1,2- phenyldiamine)] Complexes for CO₂ Reduction.
M. C. R. Peiris, University of Peradeniya/PGIS, Sri Lanka
- 12.25-12.40** Soil C sequestration of forest-cardamom systems in Knuckles Forest Range, Sri Lanka
R. P. S. K. Rajapaksha, National Institute of Fundamental Studies, Sri Lanka.
- 12.40-12.55** Sustainable approach through Biophilic Designs in School Buildings,
S. W. Chitgopkar, Manipal University, India,.

13.00-14.00 Lunch – *Anthurium Room*

Plenary Lectures (Proceedings p. 9) - Bougainvillea Room

Joint. Chairs Locana Gunaratne (Sri Lanka) and Toshiharu. Ikaga (Japan) Kumiko)

- 14.00-14.30** Urban resource and energy management for sustainable society
K. Hanaki, University of Tokyo, Japan.

Session: Gender (Proceedings p. 250--259) – *Orchid Room*

Joint. Chairs Vinitha Thadani (Sri Lanka) and Kumiko Haba (Japan)

- 14.35-15.00** Health Sector Response to Gender Based Violence.
N. Mapitigama, Ministry of Health and Indigenous Medicine, Sri Lanka
- 15.00-15.15** Building a Strong and Inclusive S&T Workforce for Solving Global Challenges (DVD presentation)
G. Richmond, University of Oregon, USA.
- 15.15-15.30** Empowerment of Women Scientists through Women Scientist Organizations,
D. S. Na, Korean Academy of Science and Technology, Korea
- 15.30-15.45** Women Leadership in National Development Through Higher Education and Research in Sri Lanka
N. H. Silva, University of Colombo. Sri Lanka..
- 15.45-16.00** Use of ICT by women in floriculture growers..
S. M. P. C. Padmini, Sri Lanka Council for Agricultural Research Policy, Sri Lanka.

Session: Energy (Proceedings p. 260-282)= *Bougainvillea Room*

Joint. Chairs Chandani Perera (Sri Lanka) and Ben Nakamura (Japan)

- 14.35-15.00** Development of BELDA, Building Energy structure and Lifestyle Database of Asia,
H. Takaguchi, Waseda University, Japan
- 15.00-15.15** Production of algal based semi solid fuel as a renewable energy source
S. K. Gunatilake, Sabaragamuwa University, Sri Lanka
- 15.15-15.30** Development of Enhanced Biogas Production from Palm Oil Mill Effluent (POME)
M. Kismurtono, Indonesian Institute of Science (LIPI), Indonesia.
- 15.30-15.45** Production of Biodiesel from Micro Algae; *Chlorella* sp. in Laboratory scale
T. M. M. Marso, University of Peradeniya/PGIS, Sri Lanka.
- 15.45-16.00** Composite SnO₂/ ZrO₂ Dye-sensitized Photo Electrochemical Solar Cells
University of Sabaragamuwa
L. M. M. De Silva, University of Sabaragamuwa, Sri Lanka.

Session: Technology Transfer (Proceedings p. 283-287) – *VIP Lounge*

Joint. Chairs Neelakanthi Gunawardane and Azra Khanum (Pakistan)

- 14.35-15.00** Using Soft Systems Methodology to Examine Biotechnology Transfer of Seaweed Tissue Culture in Indonesia Health Sector Response to Gender Based Violence.
P. Alamsyah, Indonesian Institute of Science, Indonesia.

- 15.00-15.15** Identification of Factors for the Success of Independent Inventors, a Case of Sri Lanka
H. G. G. K. Rangajewa, University of Moratuwa, Sri Lanka.
- 15.15-15.30** Environmental Scanning of the Palm Oil Industry in the Philippines: Status, Problems and Challenges,
A. Sequino, University of San Jose-Recoletos, Philippines.
- 15.30-15.45** Challenges in Increasing Sustainability of Implemented Renewable Energy Technologies in receiving communities.
N. Sintawardani, Indonesian Institute of Science, Indonesia.
- 15.45-16.00** Prospect of Utilizing Intellectual Property Rights (IPR) in Improving the Competitiveness of Indonesian Herbal Medicine.
D. A. Jatraningrum, Indonesian Institute of Science, Indonesia.

Session: Science Communication (Proceedings p. 288-298) – Jasmine Room

Joint. Chairs **N. Savitri Kumar (Sri Lanka) and S. I. Kwak (Korea)**

- 14.35-15.00** Establishment of Japan Academic Network for Disaster Reduction Japan Academic Network for Disaster Reduction
M. Yoneda, University of Keio, Japan
- 15.00-15.15** Rural Indonesian Insight on Mass Media Role in Reducing Climate Change
S. A. Dalimunthe, Indonesia Institute of Sciences (LIPI), Indonesia.
- 15.15-15.30** Communicating Science for the People: The National Science and Technology Week (NSTW) as a Site for Scientific Discourses,
L. M. Portus, University of the Philippines, , Philippines
- 15.30-15.45** Foundations for a responsive and relevant science journalism course
T. S. C. Congjuico, University of the Philippines, Philippines.
- 15.45-16.00** Science communication: An example of Japanese university education concerning interdisciplinary social problems of science and technology Use
A. Yamabe, University of Tokyo, Japan.

16.00-16.30 Tea

16.30-17.00 Closing Ceremony – SCA-16

For SCA Delegates Only

- 17.00-17.30** General Assembly Session II
Closing Ceremony and Transfer of Leadership

Acknowledgements

The Organizing Committee while appreciating the close co-operation of its members would like to take this opportunity to its appreciation of the contribution of the others that made this Conference possible

- The Science Council of Japan and its present and former staff whose total collaboration made our task very much simpler
- Members of the International Advisory Committee, who were always ready to provide us with any advice required
- Members of the Local Scientific Advisory Committee who spend much effort in ensuring the quality of the presentations made at the Conference.
- The Council of the NASSL and the Board of Management of NSF for their co-operation.
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